ASPECT Mission Order

1 Flight # **1**

Date of Order: **29 June 2011**

Time of Order: **1200** Local / [ ] UTC

Response/Deployment Name: **Las Alamos Fire**

Collection Number: **1**

A. Flight Window and Objectives

Flight Window:

- [ ] ASAP or
- [x] Planned Launch: T[**1530**], D[**6/29/11**]
- [x] Time Over Target: 1600

Objectives:

Objectives for this mission
1. **Conduct rad survey over White Rock**
2. **Conduct rad survey east of highway 4**
3. **Conduct a rad survey over the city of Las Alamos**
4. **Collect FTIR and IR data over White Rock**
5. **Collect FTIR and IR data east of highway 4**
6. **Collect FTIR and IR data over the City of Las Alamos**
7. **Collect Aerial and obliques while collecting FtIR and IR data**

B. Data to Collect

GPS:
- [x] GPL File

INS:
- [x] Calibration File (Soft iron calibration procedure)
- [x] INS Data File

Photos:
- [ ] 2800 AGL, Notes:
- [x] **4000** AGL, Notes: **Conduct all aerial collection from 4000 ft AGL**
- [ ] AGL, Notes:
- [x] Obliques

Notes: **Shoot obliques as time permits.**

FTIR:
- [x] 2800 AGL, Notes: **Collect all FTIR data from 4000 ft AGL**
- [x] 16 Wavenumber, Notes:
- [ ] 4 Wavenumber, Notes:

Co

Notes:
Collect all FTIR from 4000 ft AGL
Use line 3 for White Rock, eastside and Las Alamos for all FTIR
DO NOT FLY OVER LAS ALAMOS NATIONAL LAB PROPERTY
DO NOT FLY THROUGH THE SMOKE

IRLS:
- [ ] 2800 AGL GOAL
- [x] Other: **Collect all IRLS data from 4000 ft AGL**
- [x] TA Setting: [ ], [x] SOP
- [x] TB Setting: [ ], [x] SOP

Gamma Backgrounds:
- [x] **3000** AGL, Cosmic Test Line
- [x] **1000** AGL, Survey and Test Line 1
- [ ]

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☑ AGL, Survey and Test Line 2

Other: **Conduct the cosmic test line over the airport or an open area 3000 ft AGL**

Collect all Rad data at 1000 ft AGL
1. Use lines 1-4 over White Rock
2. Use lines 1-3 over eastside
3. Use lines 1-4 over Las Alamos
DO NOT FLY THROUGH THE SMOKE
DO NOT FLY OVER LAS ALAMOS NATIONAL LAB PROPERTY

C. Data to Process

☐	Photo Thumbs (F3)	
☑	IRLS (F4)	If fire fronts are observed in the IR, coordinate with the ground
☑	FTIR (F5)	After the completion of each line
☑	PHOTO (F6)	As directed by the ground
☑	GAMMA (F7)	After the completion of each block of data
☐	Shutter By Name (F8)	
☑	INS Binary (F9)	After collection of chemical data
☑	GPL File (F10)	After each line of data and/or as directed by the ground team

Notes: Provide active feedback to the ground on observed fire fronts, smoke levels, and other situational information

☑ Google Talk Comunication

D. Data to Send

Note: Number in Box indicates the Priority to Send

6	Digitals Folder
	FTIR Folder
3	Processed FTIR Folder
	IRLS Folder
4	Processed IRLS Folder

5	GPS Folder
	Gamma Folder
2	Processed Gamma Folder (_CMD.Zip)
1	Run Sheets

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Site: nmdhsem@epaaspect2.net

Folder: **Flight 1**

E. Flight Design and Objectives

Flight # 1

All navigation coordinates must be in DEGREE DECIMAL MINUTES (i.e., 32N 27.26, 96W 54.95)

Notes:

Fly "2011 LANL Fire_white_rock" for flight lines over white rock
Fly "2011 LANL Fire_eastside" for flight lines over eastside area
Fly "2011 LANL Fire_las_alamos" for flight lines over the city of las alamos

Flight Lines

☐ ER SOP

☐ 150 Meter Downwind

☐ 500 Meter Downwind

☐ 1000 Meter Downwind

☐ Up Plume

☐

Other:

Targets

The primary target will be LANL Area G.

Special Instructions

DO NOT FLY THROUGH THE SMOKE

For areas not impacted by fire and not impacted by smoke fly 4000 ft AGL for chem and 1000 ft for rad.

For areas impacted by heavy smoke, maintain at least 500 ft clearance above smoke for rad. For chem use 4000 ft or 500 ft above smoke which ever is lower.